

ABSTRACT

The present invention relates to a composition including an organic phosphorous-containing group bonded via an oxygen atom to a mineral oxide of at least one element M. The composition is essentially amorphous, and can include an essentially monomolecular layer of an organic group bonded to the mineral oxide via an oxygen atom of the oxide to the phosphorous atom. In addition, the composition is generally essentially free of a phosphate, phosphonate or phosphinate phase of the element M. Moreover, the composition has a ratio of the element M to phosphorous of about 15:1–200:1.